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OIEP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/055,364

DATE: 02/15/2002

TIME: 14:43:29

Input Set : A:\Gammaherpes.txt

Output Set: N:\CRF3\02152002\J055364.raw

ENTERED

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3 <110> APPLICANT: Patience, Clive
5 <120> TITLE OF INVENTION: Gamma Herpes Virus DNA and Methods of Use
7 <130> FILE REFERENCE: 61750-379
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/055,364
C--> 9 <141> CURRENT FILING DATE: 2002-01-23
9 <150> PRIOR APPLICATION NUMBER: US/09/612,204
10 <151> PRIOR FILING DATE: 2000-07-07
12 <150> PRIOR APPLICATION NUMBER: US/60/142,736
13 <151> PRIOR FILING DATE: 1999-07-08
15 <150> PRIOR APPLICATION NUMBER: US/60/168,532
16 <151> PRIOR FILING DATE: 1999-12-02
18 <160> NUMBER OF SEQ ID NOS: 55
20 <170> SOFTWARE: PatentIn version 3.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 585
24 <212> TYPE: DNA
C--> 25 <213> ORGANISM: artificial
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Fragment from Swine Gamma Herpesvirus DNA coding for
glycoprotein
29     B envelope protein
31 <400> SEQUENCE: 1
32 aatcttcgta tcagaataaa taacattttg gaagatttgt caaaggcatg gtgtcgtgag      60
33 cagcatagag ctgctctggt gtggaatgag ctcagcaaga ttaatccac aagcgctcatg      120
34 agcatgattt acaatagacc cgtatcagcc aaaagaatag gagatgtcat ttcagtctct      180
35 aactgtattg tggtagacca aaccagtgtc tcattacata aaagtctcag gcttctcagt      240
36 gcatcggatg aaaagtgtct ctctagacct ccagtgcacat ttaagtttat gaatgcacgt      300
37 actattttaca aagggcaact aggagtcaat aatgagattc tcttaaccac aacatacctt      360
38 gaaacatgtc aggaaaacac tgagtattac tttcaggcaa agacagacat gtacattttac      420
39 aaaaactatg agcatttgaa gactgtgcct ttatcttcga tcaccacact agatacattt      480
40 atagccctta attttacact attggagaat gttgacttta aagtcattga accttatacc      540
41 agggacgaga agaggcttag taatgtcttt gacattgaaa caatg                      585
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 195
46 <212> TYPE: PRT
C--> 47 <213> ORGANISM: artificial
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Deduced amino acid sequence derived from the first open
reading
51     frame of the DNA of SEQ ID NO:
53 <400> SEQUENCE: 2
54 Asn Leu Arg Ile Arg Ile Asn Asn Ile Leu Glu Asp Leu Ser Lys Ala
55 1           5           10           15
57 Trp Cys Arg Glu Gln His Arg Ala Ala Leu Val Trp Asn Glu Leu Ser

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60 Lys Ile Asn Pro Thr Ser Val Met Ser Met Ile Tyr Asn Arg Pro Val
61      35      40      45
63 Ser Ala Lys Arg Ile Gly Asp Val Ile Ser Val Ser Asn Cys Ile Val
64      50      55      60
66 Val Asp Gln Thr Ser Val Ser Leu His Lys Ser Leu Arg Leu Leu Ser
67 65      70      75      80
69 Ala Ser Asp Glu Lys Cys Phe Ser Arg Pro Pro Val Thr Phe Lys Phe
70      85      90      95
72 Met Asn Asp Ser Thr Ile Tyr Lys Gly Gln Leu Gly Val Asn Asn Glu
73      100      105      110
75 Ile Leu Leu Thr Thr Thr Tyr Leu Glu Thr Cys Gln Glu Asn Thr Glu
76      115      120      125
78 Tyr Tyr Phe Gln Ala Lys Thr Asp Met Tyr Ile Tyr Lys Asn Tyr Glu
79      130      135      140
81 His Leu Lys Thr Val Pro Leu Ser Ser Ile Thr Thr Leu Asp Thr Phe
82 145      150      155      160
84 Ile Ala Leu Asn Phe Thr Leu Leu Glu Asn Val Asp Phe Lys Val Ile
85      165      170      175
87 Glu Leu Tyr Thr Arg Asp Glu Lys Arg Leu Ser Asn Val Phe Asp Ile
88      180      185      190
90 Glu Thr Met
91      195

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93 &lt;210&gt; SEQ ID NO: 3

94 &lt;211&gt; LENGTH: 19

95 &lt;212&gt; TYPE: DNA

C--&gt; 96 &lt;213&gt; ORGANISM: artificial

98 &lt;220&gt; FEATURE:

99 &lt;223&gt; OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences

101 &lt;400&gt; SEQUENCE: 3

102 mgaacaacgt yaaytgyga

105 &lt;210&gt; SEQ ID NO: 4

19

106 &lt;211&gt; LENGTH: 19

107 &lt;212&gt; TYPE: DNA

C--&gt; 108 &lt;213&gt; ORGANISM: artificial

110 &lt;220&gt; FEATURE:

111 &lt;223&gt; OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences

113 &lt;400&gt; SEQUENCE: 4

114 mgaacaacgt yaaytgyct

116 &lt;210&gt; SEQ ID NO: 5

19

117 &lt;211&gt; LENGTH: 17

118 &lt;212&gt; TYPE: DNA

C--&gt; 119 &lt;213&gt; ORGANISM: artificial

121 &lt;220&gt; FEATURE:

122 &lt;223&gt; OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences

124 &lt;400&gt; SEQUENCE: 5

125 mgaacaacgt yaaytgy

128 &lt;210&gt; SEQ ID NO: 6

17

129 &lt;211&gt; LENGTH: 19

130 &lt;212&gt; TYPE: DNA

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C--> 131 <213> ORGANISM: artificial
      133 <220> FEATURE:
      134 <223> OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences
      136 <400> SEQUENCE: 6
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      140 <210> SEQ ID NO: 7
      141 <211> LENGTH: 19
      142 <212> TYPE: DNA
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      145 <220> FEATURE:
      146 <223> OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences
      148 <220> FEATURE:
      149 <221> NAME/KEY: misc_feature
      150 <223> OTHER INFORMATION: n=i
      152 <400> SEQUENCE: 7
X> 153 carntncart wtgcmtayg
      156 <210> SEQ ID NO: 8
      157 <211> LENGTH: 20
      158 <212> TYPE: DNA
C--> 159 <213> ORGANISM: artificial
      161 <220> FEATURE:
      162 <223> OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences
      164 <400> SEQUENCE: 8
      165 gtbatgwsha gvathtaygg
      168 <210> SEQ ID NO: 9
      169 <211> LENGTH: 20
      170 <212> TYPE: DNA
C--> 171 <213> ORGANISM: artificial
      173 <220> FEATURE:
      174 <223> OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences
      176 <400> SEQUENCE: 9
      177 gtbatgwshg cvathtaygg
      180 <210> SEQ ID NO: 10
      181 <211> LENGTH: 20
      182 <212> TYPE: DNA
C--> 183 <213> ORGANISM: artificial
      185 <220> FEATURE:
      186 <223> OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences
      188 <220> FEATURE:
      189 <221> NAME/KEY: misc_feature
      190 <223> OTHER INFORMATION: n=i
      192 <400> SEQUENCE: 10
X> 193 swcatnacrs tngtnggrtt
      196 <210> SEQ ID NO: 11
      197 <211> LENGTH: 26
      198 <212> TYPE: DNA
C--> 199 <213> ORGANISM: artificial
      201 <220> FEATURE:
      202 <223> OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences

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204 <220> FEATURE:
205 <221> NAME/KEY: misc_feature
206 <223> OTHER INFORMATION: n=i
208 <400> SEQUENCE: 11
209 trngygtart arttrtaytc yctraa
212 <210> SEQ ID NO: 12
213 <211> LENGTH: 21
214 <212> TYPE: DNA
215 <213> ORGANISM: artificial
217 <220> FEATURE:
218 <223> OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences
220 <400> SEQUENCE: 12
221 gtartarttr taytcyctra a
224 <210> SEQ ID NO: 13
225 <211> LENGTH: 21
226 <212> TYPE: DNA
227 <213> ORGANISM: artificial
229 <220> FEATURE:
230 <223> OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences
232 <400> SEQUENCE: 13
233 ctgraarttr taytcycgra a
236 <210> SEQ ID NO: 14
237 <211> LENGTH: 26
238 <212> TYPE: DNA
239 <213> ORGANISM: artificial
241 <220> FEATURE:
242 <223> OTHER INFORMATION: PCR amplification primer for pGHV-gpB gene sequences
244 <220> FEATURE:
245 <221> NAME/KEY: misc_feature
246 <223> OTHER INFORMATION: n=i
248 <400> SEQUENCE: 14
249 tgngyctgra arttrtaytc ycgraa
252 <210> SEQ ID NO: 15
253 <211> LENGTH: 20
254 <212> TYPE: DNA
255 <213> ORGANISM: artificial
257 <220> FEATURE:
258 <223> OTHER INFORMATION: PCR amplification primer for Epstein-Barr Virus genome
260 <400> SEQUENCE: 15
261 agaactaccg tcaactgcct
264 <210> SEQ ID NO: 16
265 <211> LENGTH: 18
266 <212> TYPE: DNA
267 <213> ORGANISM: artificial
269 <220> FEATURE:
270 <223> OTHER INFORMATION: PCR amplification primer for Epstein-Barr Virus genome
272 <400> SEQUENCE: 16
273 agaactaccg tcaactgc
276 <210> SEQ ID NO: 17

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Input Set : A:\Gammaherpes.txt

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277 <211> LENGTH: 21
278 <212> TYPE: DNA
C--> 279 <213> ORGANISM: artificial
281 <220> FEATURE:
282 <223> OTHER INFORMATION: PCR amplification primer for Epstein-Barr Virus genome
284 <400> SEQUENCE: 17
285 cagatccaat ttgcctacga c                                     21
287 <210> SEQ ID NO: 18
288 <211> LENGTH: 19
289 <212> TYPE: DNA
C--> 290 <213> ORGANISM: artificial
292 <220> FEATURE:
293 <223> OTHER INFORMATION: PCR amplification primer for Epstein-Barr Virus genome
295 <400> SEQUENCE: 18
296 cagatccaat ttgcctacg                                     19
299 <210> SEQ ID NO: 19
300 <211> LENGTH: 20
301 <212> TYPE: DNA
C--> 302 <213> ORGANISM: artificial
304 <220> FEATURE:
305 <223> OTHER INFORMATION: PCR amplification primer for Epstein-Barr Virus genome
307 <400> SEQUENCE: 19
308 gtcattgtcca gcatctacgg                                     20
311 <210> SEQ ID NO: 20
312 <211> LENGTH: 20
313 <212> TYPE: DNA
C--> 314 <213> ORGANISM: artificial
316 <220> FEATURE:
317 <223> OTHER INFORMATION: PCR amplification primer for Epstein-Barr Virus genome
319 <400> SEQUENCE: 20
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323 <210> SEQ ID NO: 21
324 <211> LENGTH: 26
325 <212> TYPE: DNA
C--> 326 <213> ORGANISM: artificial
328 <220> FEATURE:
329 <223> OTHER INFORMATION: PCR amplification primer for Epstein-Barr Virus genome
331 <400> SEQUENCE: 21
332 tgcgcctgga agttgtactc ccgga                                     26
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336 <211> LENGTH: 21
337 <212> TYPE: DNA
C--> 338 <213> ORGANISM: artificial
340 <220> FEATURE:
341 <223> OTHER INFORMATION: PCR amplification primer for Epstein-Barr Virus genome
343 <400> SEQUENCE: 22
344 ctggaagttg tactcccgga a                                     21
347 <210> SEQ ID NO: 23
348 <211> LENGTH: 2598

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/055,364

DATE: 02/15/2002

TIME: 14:43:30

Input Set : A:\Gammaherpes.txt

Output Set: N:\CRF3\02152002\J055364.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:25 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1  
L:47 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2  
L:96 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3  
L:108 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4  
L:119 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:131 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:143 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7  
L:153 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7  
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:159 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8  
L:171 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9  
L:183 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10  
L:193 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10  
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:199 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11  
L:209 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:11  
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:215 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12  
L:227 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13  
L:239 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14  
L:249 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14  
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:255 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15  
L:267 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16  
L:279 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17  
L:290 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18  
L:302 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19  
L:314 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20  
L:326 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21  
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L:403 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24  
L:577 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25  
L:589 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26  
L:601 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:27  
L:614 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:28  
L:627 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:29  
L:628 M:283 W: Missing Blank Line separator, <220> field identifier  
L:639 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:30  
L:652 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:31  
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L:704 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:35  
L:717 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:36  
L:2338 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:47

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L:2360 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:48  
L:2489 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:51  
L:2508 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:52  
L:2509 M:283 W: Missing Blank Line separator, <220> field identifier  
L:2526 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:53  
L:2543 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:54  
L:2557 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:55